

ABSTRACT OF DISCLOSURE

1
2 A host system is provided with one or more host-fabric adapters installed therein for
3 connecting to a switched fabric of a data network. The host-fabric adapter may comprise at least
4 one Micro-Engine (ME) arranged to establish connections and support data transfers, via a
5 switched fabric, in response to work requests from a host system for data transfers; interface
6 blocks arranged to interface the switched fabric and the host system, and send/receive work
7 requests and/or data messages for data transfers, via the switched fabric, and configured to
8 provide context information needed for said Micro-Engine (ME) to process work requests for
9 data transfers, via the switched fabric, wherein the Micro-Engine (ME) is implemented with a
10 pipelined instruction execution architecture to handle one or more ME instructions and/or one or
11 more tasks in parallel in order to process data messages.